



OBJECTIVE

- Action: Apply the Risk Management Process
- Conditions: Given handouts, the ITC Instructor Handbook, and a group practical exercise
- Standard: Complete the risk assessment worksheet for the scenario provided and correctly answer questions concerning the risk management process IAW FM 100-14 Risk Management.

PURPOSE

We are accountable, we must be responsible

AGENDA

- Identify accident causation factors
- Define key terms used in Risk Management
- Define the five steps of the RiskManagement Process
- Conduct a risk assessment practical exercise

ACCIDENT CAUSE FACTORS

- □ Human error
- Material failure/malfunction
- □ Environmental factors

ACCIDENT CAUSE FACTORS SOURCES

- Individual failure
- Leader failure
- □ Training failure
- Standards failure
- Support failure

KEY TERMS

□ Risk Management

The process of identifying, assessing, and controlling risks arising from operational factors and making risk decisions that balance risk cost with mission benefits. FM 100-14

KEY TERMS

Why is Risk Management Important?

Risk Management can empower you to accomplish the mission successfully and to protect our Army from unnecessary losses or mission degradation.

KEY TERMS

- □ Risk level
- Probability
- Severity
- □ Risk assessment
- Controls
- □ Residual risk
- □ Hazard

HAZARD

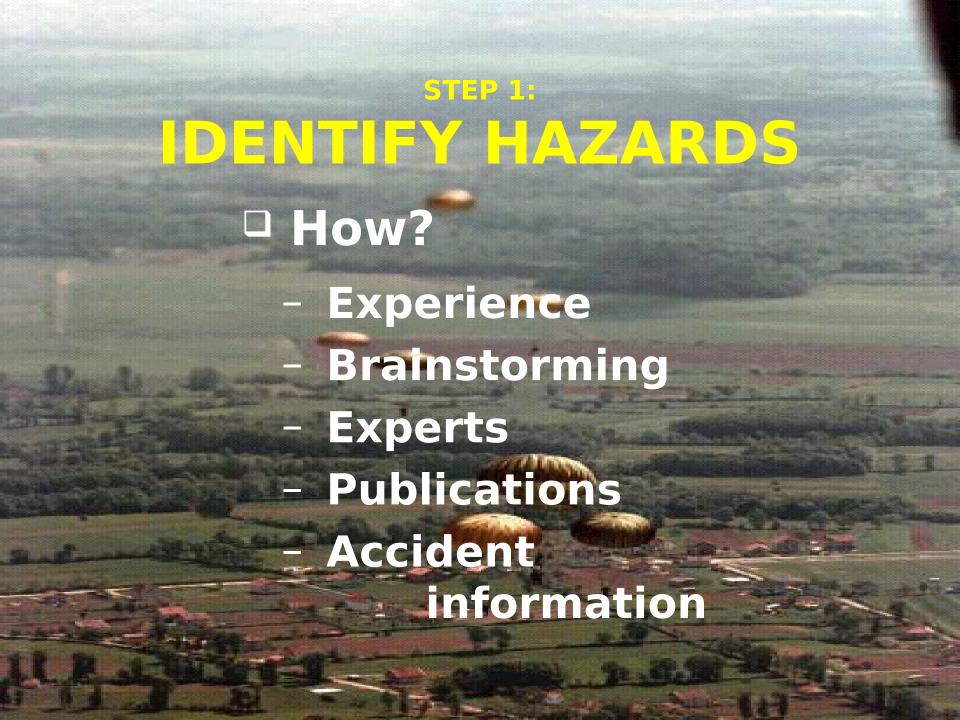
Any actual or potential condition that can cause injury, illness, or death of personnel, damage to or loss of equipment, property or mission degradation.

RISK MANAGEMENT PROCESS









BULLETINS

BULLETINS

BULLETIN

SAFETY



U.S. Army Special Operations Command Fatality

During the conduct of a night, jumpmaster directed, Ground Marked Release (GMRS), Static-line Airborne Operation a USASOC soldier was fatally injuries soldier landed in high-tension power lines and suffered electrical injuries soldier then fell approximately 40 feet onto a hard surface road and suffe trauma.

The accident investigation revealed numerous violations of USASOC Reg Airborne Operations, dated 1 June 1995.

Lessons learned from this accident:

- 1. The risk management process must be used throughout the planning a phases of all airborne operations. risk management is a living, ongoin Commanders must ensure that the risk assessment includes all hazard the drop zone, and that they are identified, and that control measures implemented, and enforced to reduce risk to acceptable levels. If risks carreduced to acceptable levels select alternate DZ".
- 2. When planning to use unfamiliar DZ's, commanders must ensure the DZS conducts a thorough ground reconnaissance of the DZ and surrounding at the accuracy of the DZ survey. DZSTLs are required to submit changes to surveys that are inaccurate. All hazards identified must be considered in assessment and communicated to the airborne commander, jumpmasters, jumpers. Hazards must be marked IAW with USASOC Reg 350-2. Hazard but are not limited to high-tension power lines, bodies of water, trees, road traffic, structures, and equipment on the DZ. Only qualified and current jumps who have received DZSTL training can conduct DZ surveys.
- 3. Commanders must ensure all required key personnel are qualified, assign present for the operation. Key personnel include the airborne commander jumpmasters, aircraft safeties, and the DZSO/DZSTL. The DZ party must tailored, with both personnel and equipment, to safely operate the DZ to be sed

-OVER-



06-02 Dec 01

Unexploded Explosive Ordnance (U

USASOC has recently incurred three serious injuries associated with destruction of UXO munitions. Two of these accidents in Most vereto one involved an M-72 LAW, which caused the death of an Explosive (nance Detachment (EOD) Sergeant that was supporting SOF OCOMINATION IN each case the proper procedures to destroy the items we followed by the personnel involved in the operation.

"...any explosive ordnance that has been pi fused, armed or otherwise prepared for action, and fired, launched, projected or placed in such a manner as to con UXO hazarah ലൂറ്റുള്ള rations, installations, personnel or materiel and unexploded either by malfunction, design, or for any other

The authority to dispose of UXO by SOF personnel is contained in Chaparagraph 8-4, USASOC Reg. 3&5cldent Prevention and Repolt9n Apr 00. This regulation states that "Commanders of Special Forces Units may approve the destruction of UXO amffonlyin OCONUS locations where EOD personnel are not readilyamvailable("I other conditions as specified in USASOC Reg 385-1 have been met. When munitions are encountered within CONUS, or any area where EOD is available, the units should notify the appropriate Range Control Office who will contact EOD to dispose of the UXO.

The task of dealing with UXO begins with the unit's mission planning. The potential for UXO must be considered whenever the training mission invol the use of dud producing weaponry. The best means to prevent UXO occu rences is to ensure that all charges are dual primed. Procedures to UXO should be rehearsed prior to conducting the operation. Local EOD ur should be consulted and invited to assist in the conduct of these rehearsa It is imperative that anyone tasked to dispose of UXO understands th characteristics, stability, and degree of sensitivity regarding the particular

-OVER-

FATALITY BULLETIN

SAFETY BULLETIN

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BULLETINS



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The accident investigations of USASOC Reg

Lessons learned from

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1. The risk management process must be used throughout the planning and execution phases of all ... operations. Risk management is a living, ongoing process. Commanders must ensure that the risk assessment includes all hazards... and that they are identified, and that control measures are



- Army Safety Home Page (http://safety.army.mil)
 - Army Safety Program
 - Army Statistics
 - RM Tools
- Risk Management Information System (http://rmis.army.mil)
 - Hazards by System
 - Accident Overviews
 - Database Information
 - Messages
- Help Desk (helpdesk@safety.emh1.army.mil)
 - (334) 255-1390 or DSN 558-1390

IDENTIFY HAZARDS

□ METT-TC factors

Mission

Enemy

Terrain / Weather

Specified & implied

Size & capability

Environmental conditions



- □ OCOKA
 - Observation & fields of fire
 - Cover & concealment
 - Obstacles
 - Key & decisive terrain
 - Avenues of approach

IDENTIFY HAZARDS

□ METT-TC factors continued

Troops / Equip

Time

Civilians

Training & condition Amount, type, & condition

Plan, rehearse, & conduct

Number, activity, & intent



CHECK ON LEARNING

□ What is a hazard?

What are some resources we can use to identify hazards?

How does METT-TC help us identify hazards?





RISK ASSESSMENT MATRIX

		<u>Probability</u>						
Severity		Frequent A	Likely B	Occasional C	Seldom D	Unlikely E		
Catastrophic		E	E	H		M		
Critical	II	E	Н	Н	M	L		
Marginal		Н	M	M	L	L		
Negligible	V	M	L	L	L	L		

E - Extremely High Risk

Moderate Risk

L - Low Risk

RISK ASSESSMENT WORKSHEET (USASOC Reg 385-1) Activity or Exercise Name: Organization: Prepared By: Page 1 of **Probability** Effect of Residual Residual Risk Residual **HAZARDS Controls Implemented** of Mishap Mishap Probability Effect Risk Level Level

USASOC Form 1149-R-E APR 98 (AOOS)

Previous editions are obsolete.

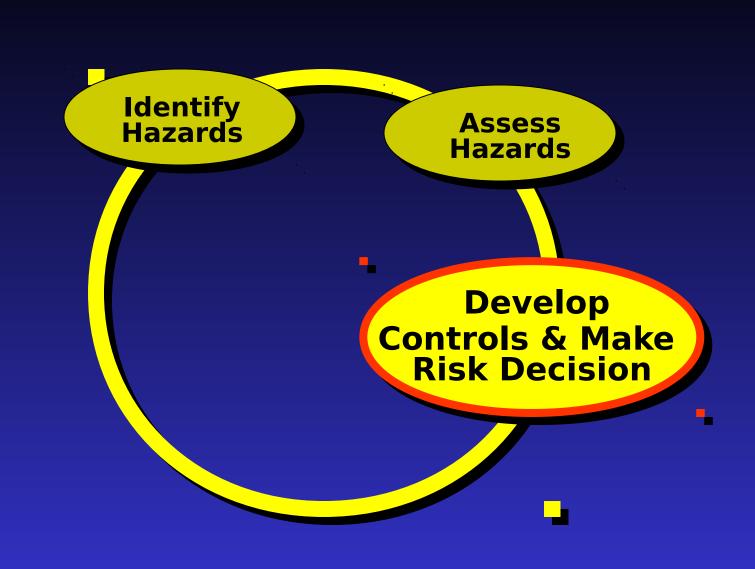
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USASOC Form 1149-R-E APR 98 (AOOS)



CHECK ON LEARNING

- What makes a hazard extremely high risk?
- A hazard that has critical effect and is seldom encountered has what risk level?







- Select a COA that avoids identified hazard
- Providing protective clothing, equipment, and safety devices
- Selecting personnel with appropriate mental, emotional, and physical capabilities

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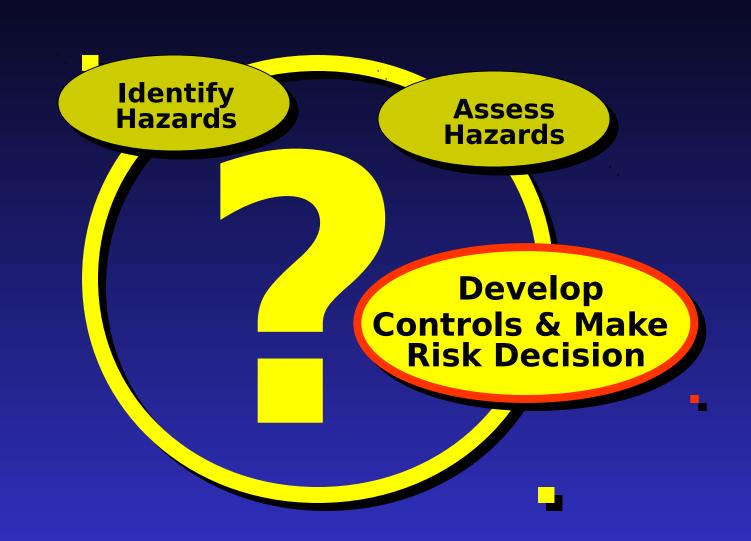
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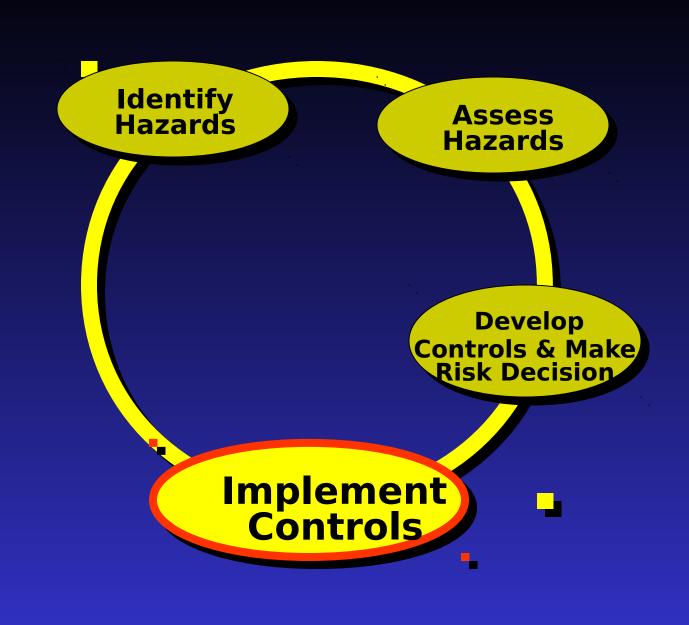
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CHECK ON LEARNING

- □ What are some types of controls?
- □ What is the criteria for controls?
- What can the CDR do if the controls are inadequate?





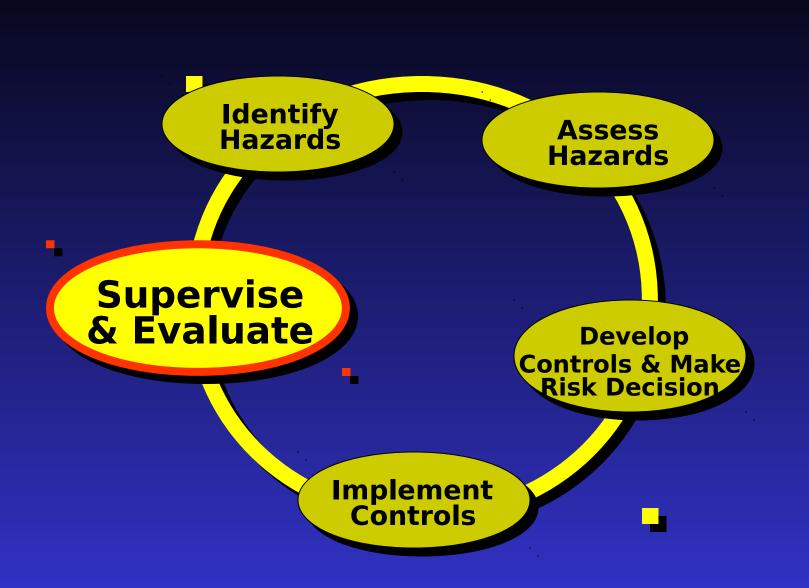
IMPLEMENT CONTROLS

- Leaders must ensure that controls are integrated into SOP's, written & verbal orders, mission briefings, and staff estimates
- Includes communication & coordination



CHECK ON LEARNING

- □ Where must we integrate controls?
- What can happen to our controls if we don't communicate and coordinate with other units?



STEP 5:

SUPERVISE & EVALUATE

Leaders must supervise the execution of their orders. The more untrained the troops, the more detailed this supervision must be.

<u>Infantry in</u>

Battle, 1939

STEP 5:

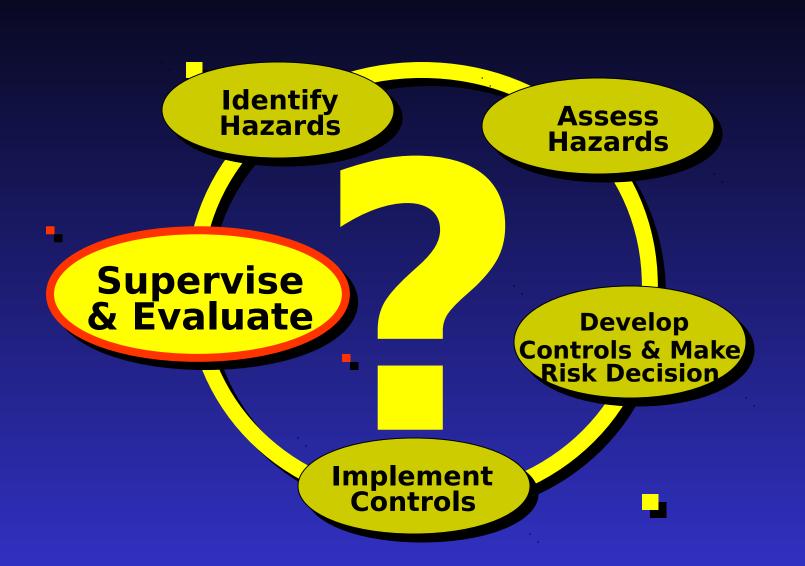
SUPERVISE & EVALUATE

- Supervise mission rehearsal & execution
- Monitor and modify controls as necessary
- Avoid complacency

STEP 5:

SUPERVISE & EVALUATE

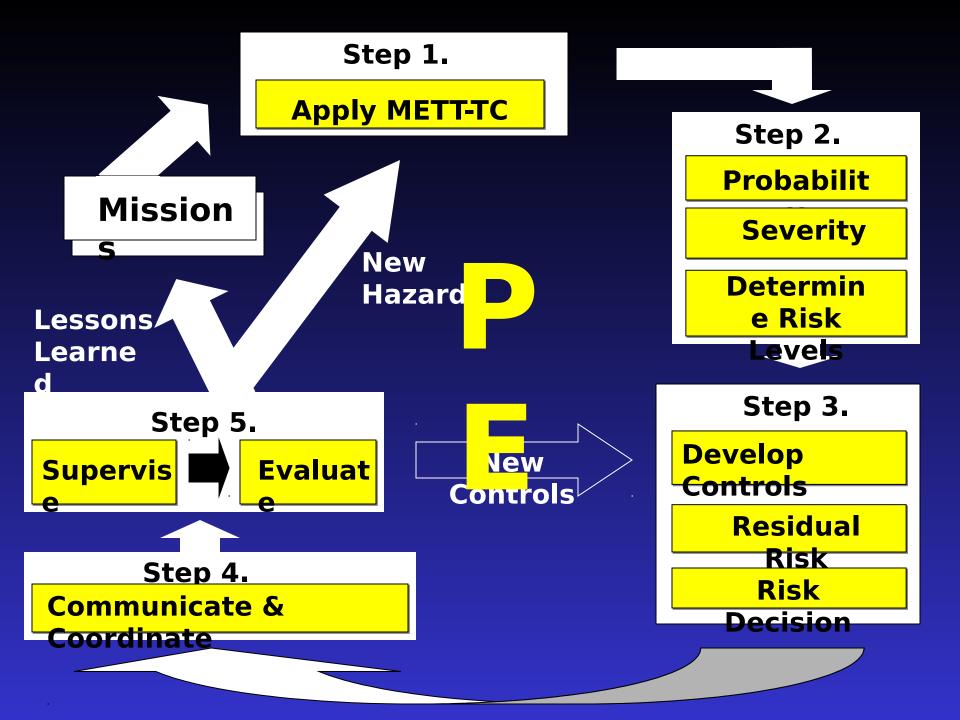
- □ Check how well the risk management process was executed
- Determine effectiveness of each control
- Determine how to ensure successes are continued
- Lessons learned



CHECK ON LEARNING

- Why must there be supervision?
- What do we look for when evaluating?

RISK MANAGEMENT STEPS APPLIED





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REVIEW

- What are the three accident cause factors
- What is Risk Management?
- □ What is a hazard?
- How do we determine risk levels?
- What are physical controls?

REVIEW

- What happens if we find inadequate controls?
- What FM covers Risk Management?

AGENDA

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